

**DECLARATION and POWER OF ATTORNEY**

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**Y-BRANCH-BASED THERMO-OPTIC DIGITAL OPTICAL SWITCHES AND VARIABLE OPTICAL ATTENUATORS WITH NON-UNIFORM HEATING**

the specification of which is attached hereto unless the following box is checked:

☐ was filed on 01 July 2004 as U.S. Application No. \_\_\_\_\_ or PCT International Application No. PCT/US04/21682  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is known to me to be material to patentability as defined in 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Application No.	Country	Filing Date	Priority Claimed (Yes / No)
			<input type="checkbox"/> <input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/>

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States Provisional Application(s) listed below.

**U.S. Provisional Application No.**

60/484364

**U.S. Filing Date**

02 July 2003

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s), or § 365(c) of any PCT International Application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or PCT International Application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose information which is known to me to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

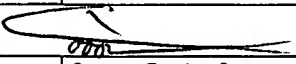
Application No.	Filing Date	Status
	---	
	---	
	---	

**POWER OF ATTORNEY:** I hereby appoint the following attorney(s) and/or agent(s) the power to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Name: <b>LOIS A. SANTOPIETRO</b>		Registration No.: <b>36,264</b>
Send correspondence and direct telephone calls to:	<b>E. I. du Pont de Nemours and Company</b> Legal - Patents Wilmington, DE 19898, U.S.A.	<b>Tel. No.</b> (302) 892-7752 <b>Fax No.</b> (302) 892-7949
<b>LOIS A. SANTOPIETRO</b>		

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

**INVENTOR(S)**

Full Name of Inventor	Last Name	First Name	Middle Name
	<b>ELDADA</b>	<b>LOUAY</b>	
	Signature (please sign full name): 		Date: <b>05/31/05</b>
<b>Residence &amp; Citizenship</b>	City <b>LEXINGTON</b>	State or Foreign Country <b>MASSACHUSETTS</b>	Country of Citizenship <b>US</b>
<b>Post Office Address</b>	Post Office Address <b>169 CONCORD AVENUE</b>	City <b>LEXINGTON</b>	State or Country <b>MASSACHUSETTS</b> Zip Code <b>02421</b>

☐ Additional Inventors are being named on separately numbered sheets attached hereto.

**GENERAL POWER OF ATTORNEY**  
(Concerning Several International Patent Applications)

The undersigned, P. Michael Walker, Associate General Counsel and Chief Intellectual Property Counsel, and Vice Chairman of the Patent Board of E. I. DU PONT DE NEMOURS AND COMPANY, 1007 Market Street, Wilmington, Delaware 19898 USA ("DuPont"), hereby confirms that the power to sign for DuPont has been granted to various individuals (as set forth in the attached excerpt from DuPont's Patent Board Rules of Procedure (January 1988), Appendix Section III.A.4), including the Chairman, Vice-Chairman, and those individuals who are Assistant Secretaries of the Patent Board. Currently these Assistant Secretaries are:

Roger A. Bowman  
Linda J. Davis

John E. Griffiths  
Barbara J. Massie

Miriam D. Meconnahey  
Deborah A. Meginniss

In addition, the authority to act on behalf of DuPont before the competent International Authorities in connection with any and all international patent applications filed by it with the United States as Receiving Office and to make or receive payments on its behalf is hereby granted to:

Beardell, Lori Y.	34,293
Benjamin, Steven C.	36,087
Birch, Linda D.	38,719
Capria, Mary Ann	32,659
Christenbury, Lynne M.	30,971
Clark, Dawn S.	42,420
Cotreau, William J.	36,490
Dalickas, Gail A.	40,979
Deitch, Gerald E.	30,457
Deshmukh, Sudhir	33,677
Dobson, Kevin S.	40,296
Duffy, Roseanne R.	33,869
Edwards, Mark A.	39,542
Estrin, Barry	26,452
Evans, Craig H.	31,825
Fair, Tamera L.	35,867
Feltham, S. Neil	36,506
Fickes, Daphne P.	36,509
Fricke, Hilmar L.	22,384
Golian, Andrew G.	25,293
Gorman, Thomas W.	31,959
Griffiths, John E.	32,647
Hamby, Jane O.	32,872
Hamby, William H.	31,521
Heiser, David E.	31,366
Hendrickson, John S.	30,847
Jarnholm, Arne R.	30,396
Kaeding, Konrad S.	32,035
Karel, Karin J.	33,918
Katz, Elliott A.	26,396
Kelly, Patricia L.	39,247

King, Karen K.	34,850
Kuller, Mark D.	31,925
Langworthy, John A.	32,255
Lerman, Bart E.	31,897
Levitt, Cary A.	31,848
Lhulier, Christine M.	54,269
Lucas, Steven W.	35,258
Magee, Thomas H.	27,355
Mayer, Nancy S.	29,190
Medwick, George M.	27,456
Morrissey, Bruce W.	30,663
Moss, Arthur Z.	41,206
Narita, Jonathon O.	53,369
Orozco, Jr., Emil M.	50,823
Perrotto, Carol R.	41,247
Rehberg, Edward F.	34,703
Restrepo-Hartwig, Maria	52,163
Sanchez, Kathryn M.	43,081
Santopietro, Lois A.	36,264
Sauerbrunn, Linda K. H.	41,291
Schaeffer, Andrew L.	33,605
Sebree, Chyrea J.	45,348
Shay, Lucas K.	34,724
Shipley, James E.	32,003
Siegell, Barbara C.	30,684
Sinnott, Jessica M.	34,015
Steinberg, Thomas W.	37,013
Strickland, Frederick D.	39,041
Tocker, Edwin	20,341
Walker, P. Michael	32,602
Wang, Chen	38,650

The undersigned ratifies fully all actions already taken by the above-named individuals in accordance with the authority granted hereby.

E. I. DU PONT DE NEMOURS AND COMPANY

By: \_\_\_\_\_

P. Michael Walker

Associate General Counsel and Chief Intellectual Property Counsel  
Vice-Chairman of the Patent Board

Date: \_\_\_\_\_

July 6, 2005